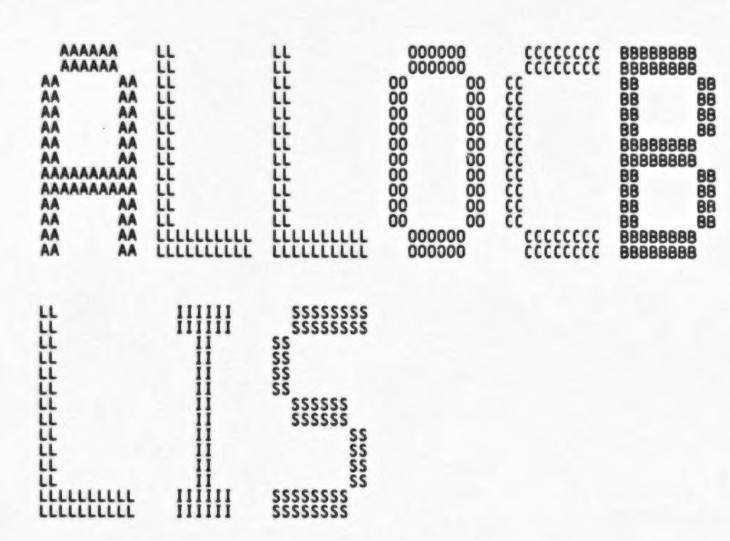
MMM MMM MMM	MMM MMM MMM		AAAAAAA AAAAAAA				2222222222 22222222222	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPPPPPPPPPPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPPPPPPPPPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPPPPPPPPPP
MMM	MMM	TTT	AAAAAAAAA	AAAA		AAAAAAA	ČČČ	PPP
MMM	MMM	TTT	AAAAAAAAA	AAAA	AAAAAA	AAAAAAA	CCC	PPP
MMM	MMM	TTT	AAAAAAAAA	AAAA	AAAAAA	AAAAAAA	ČČČ	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP
MMP	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	CCCCCCCCCC	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	2222222222	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	2222222222	PPP

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18

TITLE ALLOCB - ALLOCATE DYNAMIC MEMORY

F 12

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Facility: mtaacp

Abstract:

these routines allocate and deallocate system non-paged dynamic memory for acp control blocks.

Environment:

starlet operating system, including privileged system services and internal exec routines. note that this routine must be called in kernel mode.

Author: Andrew C. Goldstein, Creation Date: 14-DEC-1976 16:25 Modified By:

V02-002 REFORMAT R Schaefer 23-Jul-1980 15:53 Reformat the source.

53 : 54 : Include Files: 55 : 56 :

Page

BV

.ALIGN 2

ALLOCB VO4-000

3C DO 16 11

20\$:

MOVZWL

MOVL

JSB BRB

get approp and proces and wait f try again

get appropriate resource code

and wait for pool to appear

and process pcb address

BIV

B

ALLOCB VO4-000

16-SEP-1984 02:02:23 VAX/VMS Macro V04-00 5-SEP-1984 02:10:22 [MTAACP.SRC]ALLOCB.MAR;1

Deallocates the indicated block of memory back to the system pool of non-paged dynamic memory. DEALLOCATE:

Calling sequence:
CALL DEALLOCATE (ARG1)

Input Parameters: ARG1: address of block being deallocated

Implicit Inputs: none

Output Parameters: none

Implicit Outputs: none

Routine Value: none

Side Effects: block deallocated

DEALLOCATE :: 003C 00 3C

00000000°9F

^M<R2,R3,R4,R5>
ADDRESS(AP),R0
WCB\$W_SIZE(R0),R1
#IPL\$_SYNCH,R2
a#EXE\$DEANONPAGED
#0 . WORD MOVL MOVZWL DSBINT JSB ENBINT RET

; save registers
; get address of block
; get block size
; raise ipl to synchronize
; and deallocate thru exec
; restore ipl

.END

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I CPSPSPCA

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The working set limit was 1200 pages.
13510 bytes (27 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 201 non-local and 2 local symbols.
359 source lines were read in Pass 1, producing 13 object records in Pass 2.
20 pages of virtual memory were used to define 18 macros.

K 12

ALLOCB VAX-11 Macro Run Statistics

- ALLOCATE DYNAMIC MEMORY

16-SEP-1984 02:02:23 VAX/VMS Macro V04-00 5-SEP-1984 02:10:22 [MTAACP.SRCJALLOCB.MAR;1

Page 6

Macro library statistics !

Macro library name

Macros defined

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 \$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)

540

277 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:ALLOCB/OBJ=OBJ\$:ALLOCB MSRC\$:MTADEF1/UPDATE=(ENH\$:MTADEF1)+MSRC\$:ALLOCB/UPDATE=(ENH\$:ALLOCB)+EXECML\$/LIB

6

0253 AH-BT13A-SE

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